



Colloids in Drug Delivery: 150 (Surfactant Science)

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Colloidal drug delivery systems present a range of therapeutic benefits in the treatment of a number of challenging conditions, allowing researchers to cross barriers that have previously prevented efficient treatment while offering improved and more targeted absorption. Summarizing recent research in the field, **Colloids in Drug Delivery** assembles the work of 65 of the world's leading colloid scientists who examine the full spectrum of this rapidly emerging science, from pure to applied, most of it drawn from their own experience and research.

The book begins by examining the basics of surfactant and polymer surface activity and self-assembly, the various types of structures formed by such compounds, and their use in drug delivery and biotechnology. It examines the development of controlled and targeted delivery systems by utilizing the various properties of colloids before moving on to discuss various applications and fields of research.

Topics discussed include:

- The use of hard, soft, and macromolecular colloidal drug delivery systems formed by surfactants, polymers, proteins, and lipids
- Recent advances in procolloidal systems, self-emulsifying drug delivery systems, and aerosol applications to pharmaceutical drug delivery
- Colloidal nanocarriers for imaging applications and the treatment of dental and periodontal diseases
- Classification and application of colloidal drug delivery systems in tumor targeting
- The use of colloids for improved nasal, ocular, vaginal, oral, buccal, gastrointestinal, and colon drug delivery

Examining topics necessary to the critical evaluation of a drug candidate's potential for delivery, the book also describes the preparation, classification, interfacial activity, surface modifications and influence on particle characteristics, drug delivery, and drug targeting. Each chapter in this expansive volume explains why a particular system is used for the intended application, how it is made, and how it behaves.

All those concerned with the research, development, and manufacture of drugs will find this a valuable reference, offering a wealth of research upon which they can build.

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